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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/702,543	11/07/2003	Minoru Senda	67162-029 8214		
7590 12/10/2004 McDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			EXAMINER		
			TRA, ANH QUAN		
			ART UNIT	PAPER NUMBER	
			2816		
			DATE MAILED: 12/10/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	Application No. Applicant(s)					
		10/702,54	3	SENDA, MINORU				
		Examiner		Art Unit				
		Quan Tra		2816				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nasions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute or to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no eve cation. ays, a reply within the statu orry period will apply and will. by statute. cause the apply.	int, however, may a reply be time story minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133)	ly. ommunication.			
Status		·						
1)⊠ Responsive to communication(s) filed on <u>07 November 2003</u> .								
	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,4 and 5 is/are rejected. 7) Claim(s) 2 and 3 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers							
10)	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objected Replacement drawing sheet(s) including the The oath or declaration is objected to by) accepted or b)[on to the drawing(s) boole correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl				
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	•							
2) ☐ Notic 3) ⊠ Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO-1449 or PTo r No(s)/Mail Date <u>11/7/03</u> .	O/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ite)-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito (USP 6259612), Applicant's submitted IDS.

As to claim 1, Ito discloses in figure 2 a semiconductor device comprising a boosting circuit that supplies a power supply voltage (Vpp) during a standby state of the semiconductor device, the boosting circuit including a charge pump circuit (3), a first detection circuit (6) that detects an output voltage of the charge pump circuit, and a second detection circuit (1, IV1) that detects the output voltage of the charge pump circuit, the second detection circuit operating with a DC current greater than that of the first detection circuit (column 6, lines 57-59, teaches that the operational amplifier 61 is a low power consumption-type with a small operating current) and being activated by a detection signal of the first detection circuit, wherein the charge pump circuit is activated based on at least a detection signal of the second detection circuit.

As to claim 4, figure 2 shows that the second detection circuit generates a signal to inactivate the charge pump circuit based on a status in which the output voltage of the charge pump circuit reaches a predetermined voltage corresponding to the detection level of the second detection circuit.

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As to claim 5, figure 4 shows that a period (a high level period of signal OSCE) for which the second detection circuit is active is shorter than a period for which the first detection circuit is active (a high level of signal SOSCE).

Allowable Subject Matter

3. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 2 would be allowable because the prior art fails to teach or suggest that the detection level of the second detection circuit is higher than the detection level of the first detection circuit.

Claim 3 would be allowable because the prior art fails to teach or suggest that the charge pump circuit is activated based on a result of AND operation of the detection signals of the first and second detection circuits.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quan Tra whose telephone number is 571-272-1755. The examiner can normally be reached on 8:00 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quan Tra

Primary Examiner

December 6, 2004